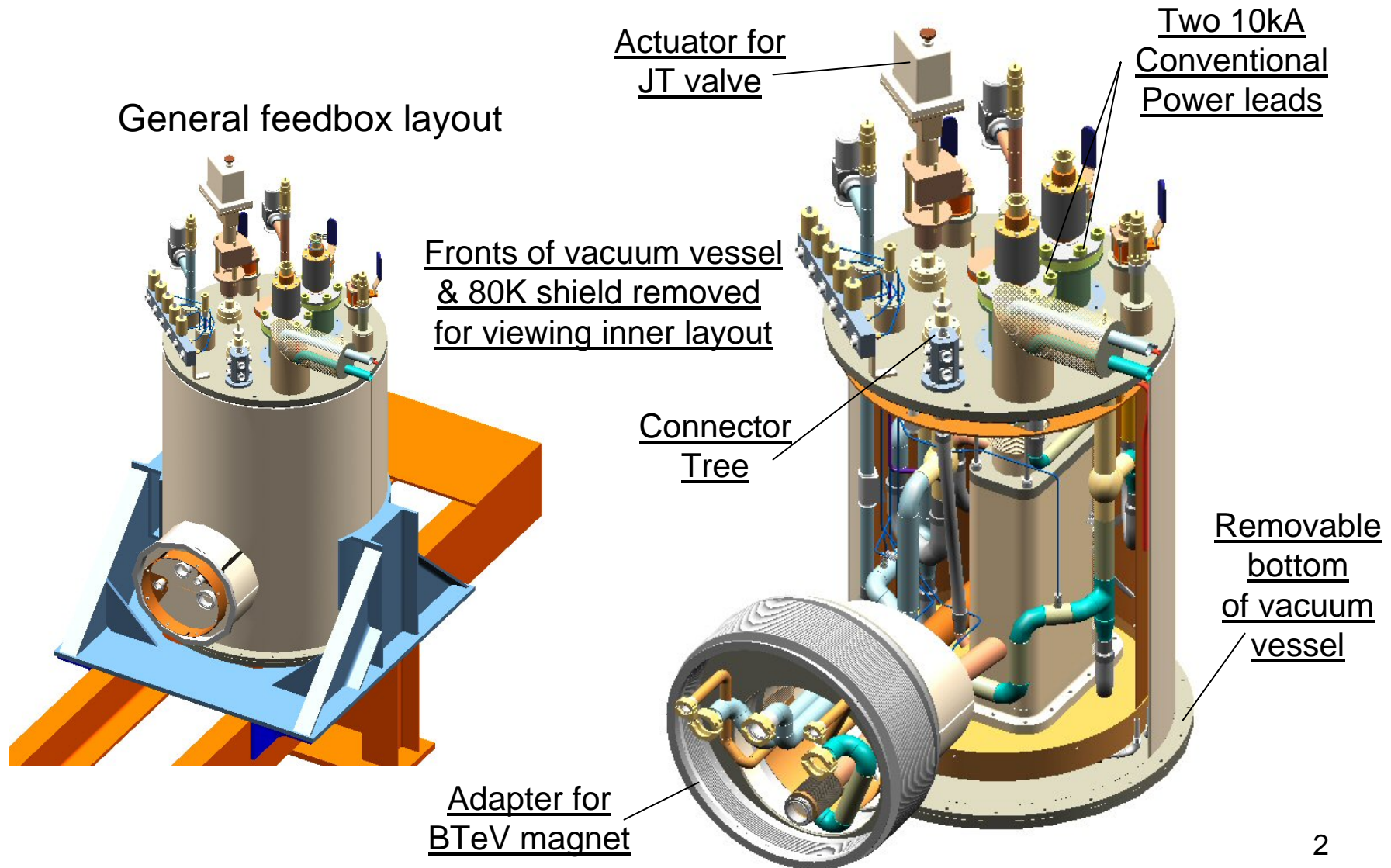


# MTF Stand 6 – BTev Test Stand

T. Peterson  
C. Reid  
M. Wong

13 January 2005

# Overall Layout

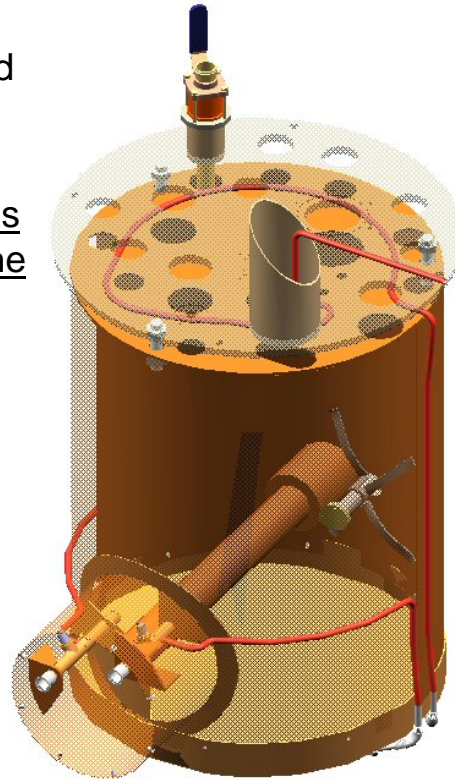


# 80K Copper Shield & LN2 Lines

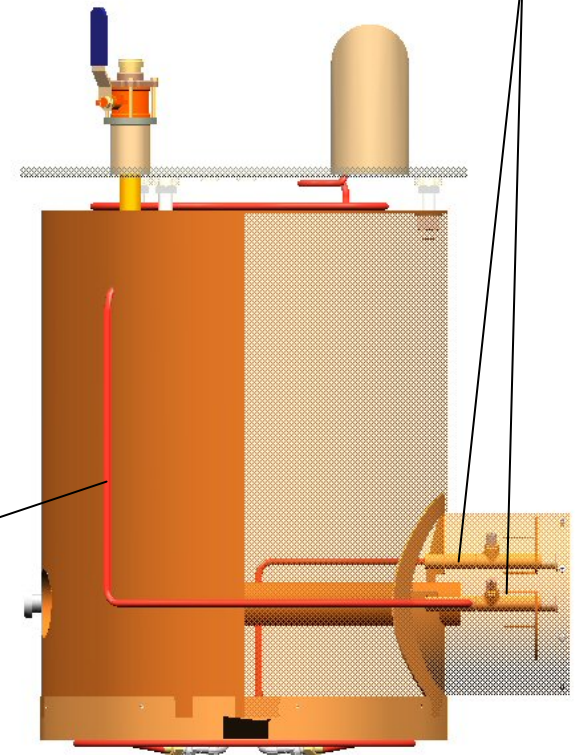
(top plate of vacuum vessel,  
front and nose of copper shield  
are translucent in images)

LN2 Inlet

Nylon rods support  
The shield, which hangs  
From the top plate of the  
Vacuum vessel

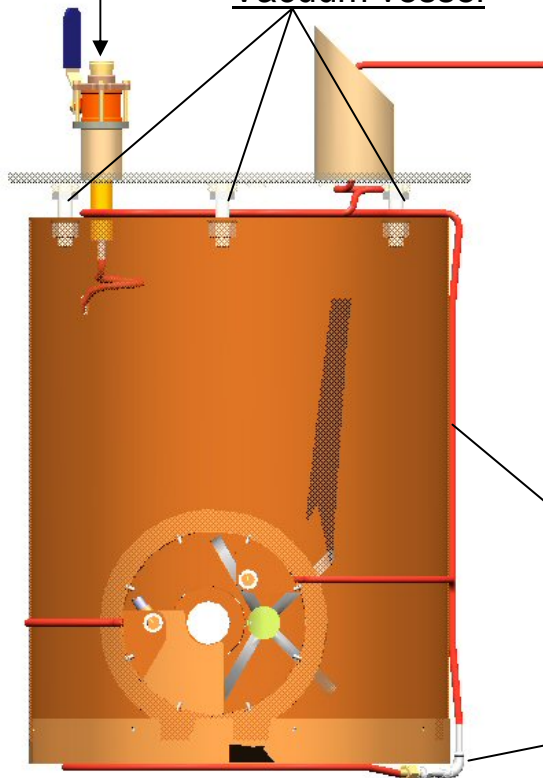


Piping for LN2  
supply to/return from  
magnet

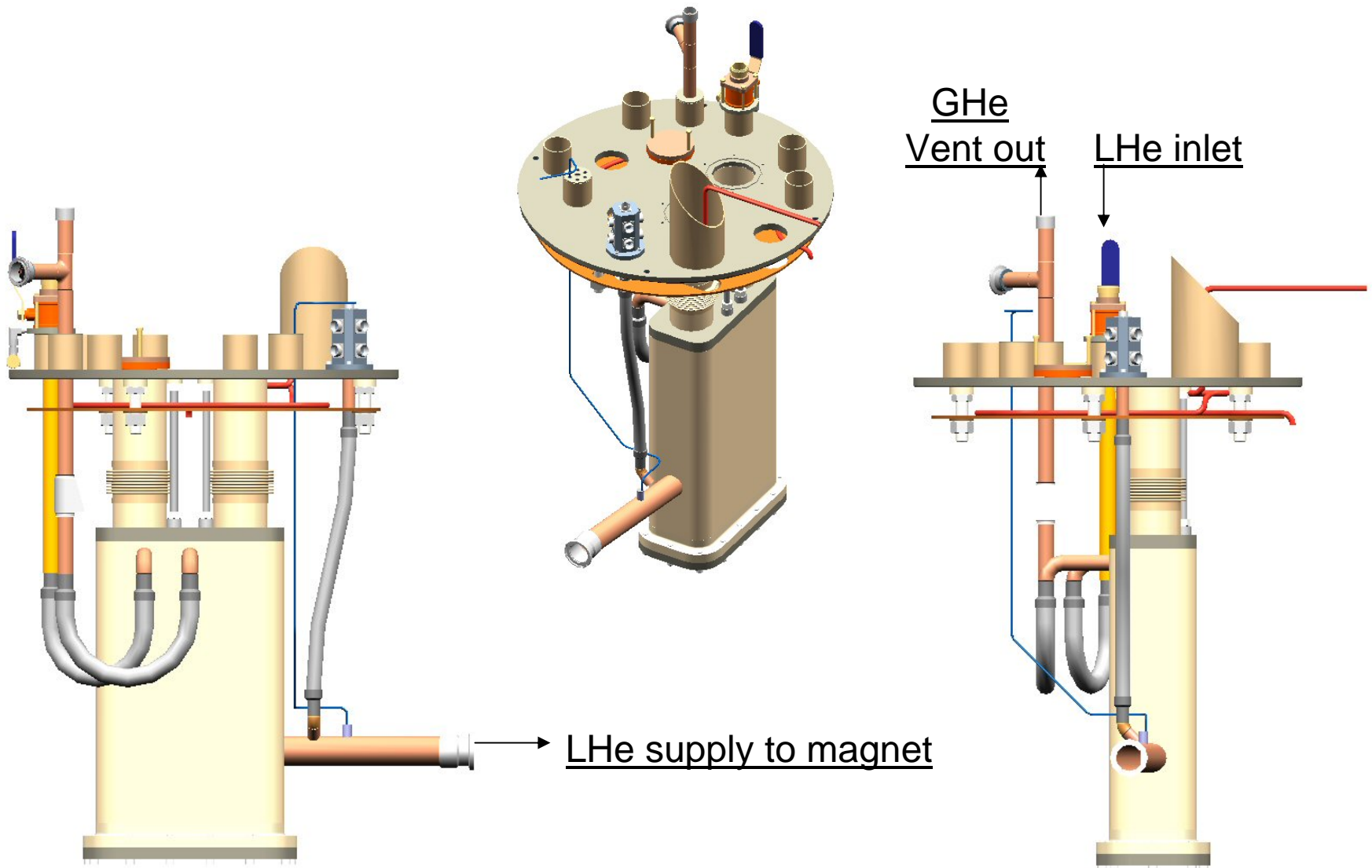


LN2 lines cooling the  
copper shield

Lines can be opened  
To remove bottom of shield



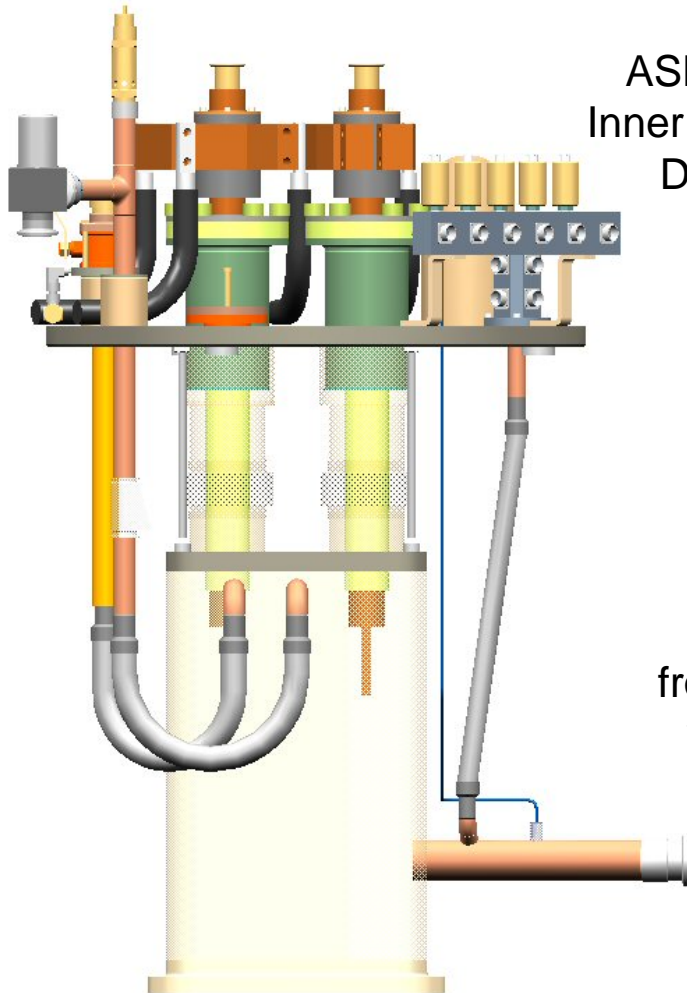
# Helium 1-Phase Supply



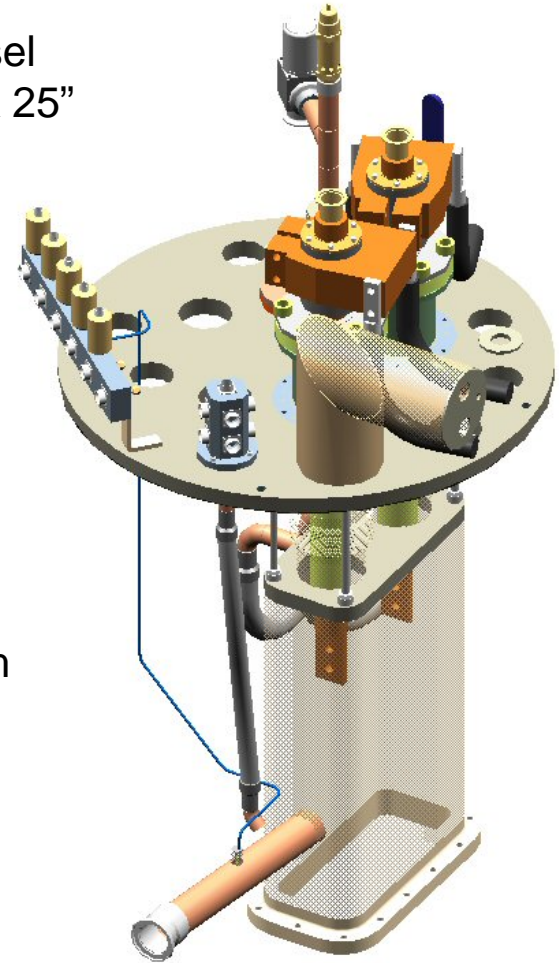


# Helium Vessel with 10kA Power Leads

ASME Coded helium vessel  
Inner volume 13.75" x 5.5" x 25"  
Design pressure 215 psi

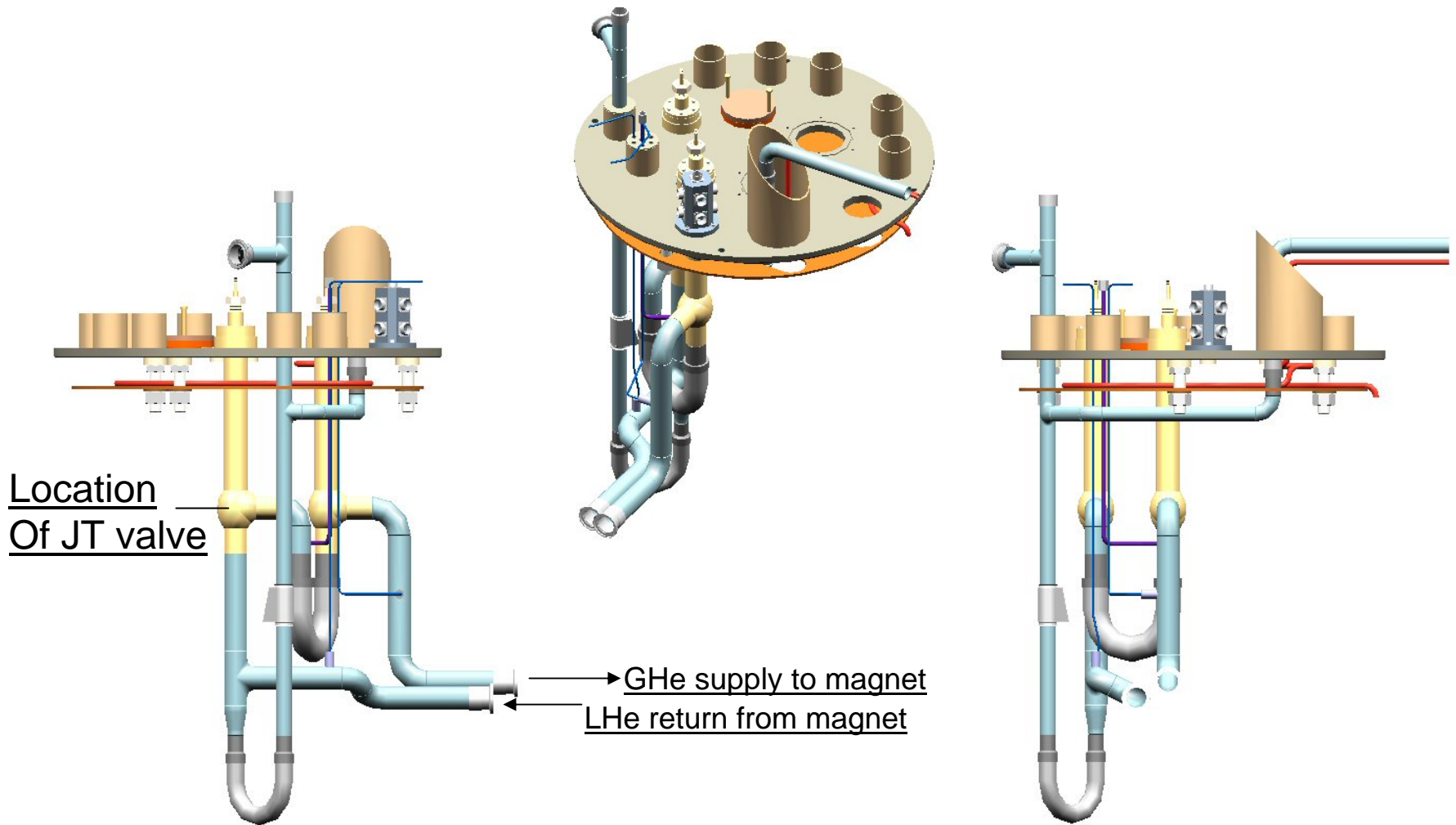


Helium vessel hangs  
from top plate of vacuum  
vessel using stainless  
steel rods

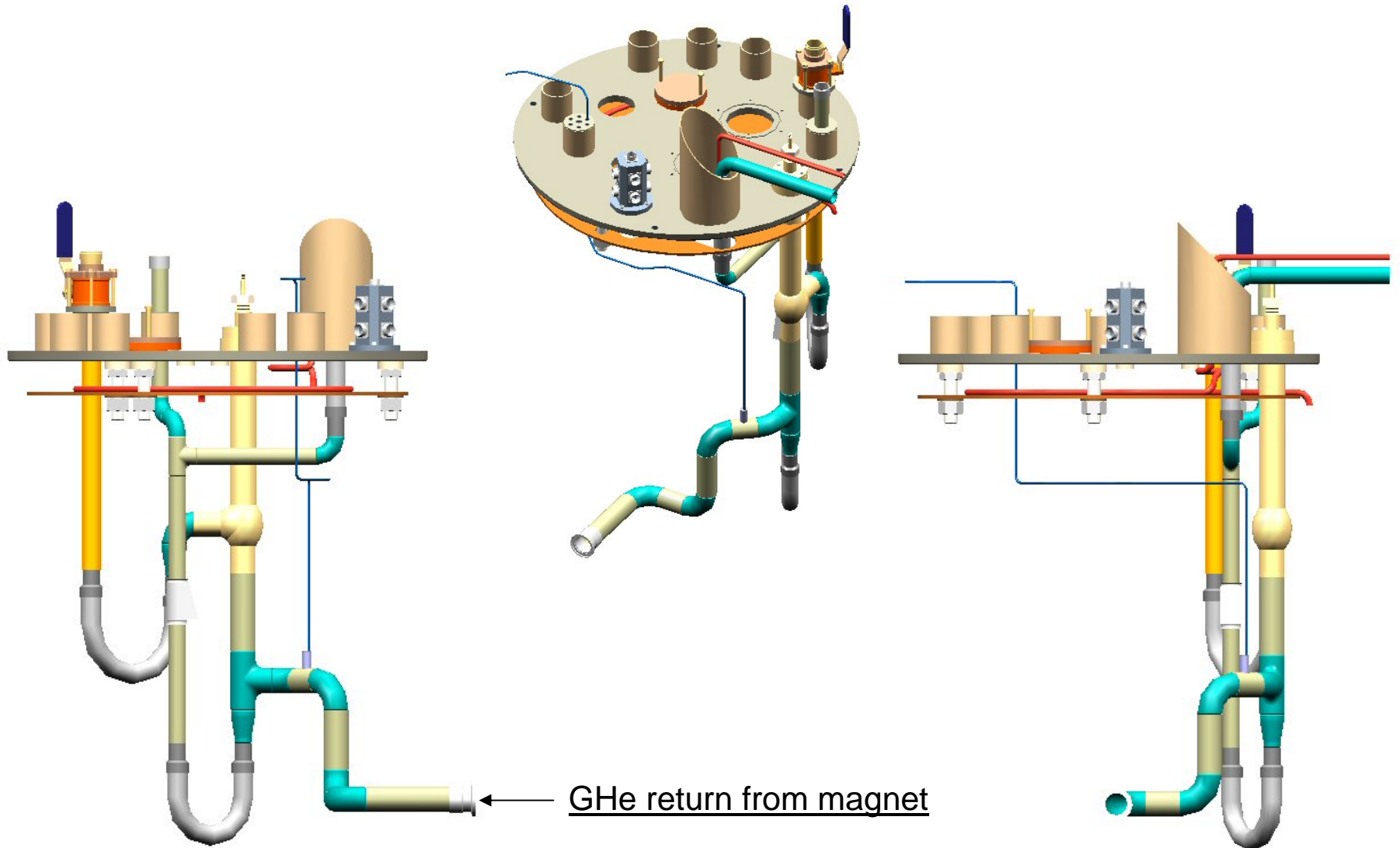


Removable bottom cover for power lead installation

# Helium 1-Phase Return/ 2-Phase Supply



# Helium 2-Phase Return



# Documentation Status

- Helium vessel engineering note – complete
- Vacuum vessel engineering note – 90% complete
- Conceptual Design Review – 26 January